Maine Center for Disease Control and Prevention
An Office of the Department of Health and Human Services

Department of Health and Human Services
Maine Center for Disease Control and Prevention
286 Water Street
11 State House Station
Augusta, Maine 04333-0011
Tel: (207) 287-5672
Fax: (207) 287-4172; TTY: 1-800-606-0215

SUBSURFACE WASTEWATER DISPOSAL SYSTEM VARIANCE REQUEST

This form must accompany an application (HHE-200 Form) for any subsurface wastewater disposal system which requires a variance to provisions of the Subsurface Wastewater Disposal Rules. The Local Plumbing Inspector must not issue a permit for the installation of a subsurface wastewater disposal system requiring a variance from the Department of Health and Human Services until approval has been received from the Department.

GENERAL INFORMATION Town of Augusta

Property Owner's Name: Newman Gamage Tel. No.: 207-622-5009

System's Location: 230 Church Hill Road, Augusta, Maine 04330

Property Owner's Address: 230 Church Hill Road, Augusta, Maine Zip Code 04330

e-mail address:

The subsurface wastewater disposal system design for the subject property requires a ☐ replacement system variance ☐ first time system variance to the Subsurface Wastewater Disposal Rules. This variance requires ☐ local approval ☐ local and state approval.

SPECIFIC VARIANCE REQUESTED (To be filled in by Site Evaluator. Use additional sheets if needed.) **SECTION OF RULE**

1. Install system 88' from owners well...site limited by depth to bedrock — 8A
2. —
3. —

SITE EVALUATOR

When a property is found to be unsuitable for subsurface wastewater disposal by a licensed Site Evaluator, the Evaluator shall so inform the property owner. If the property owner, after exploring all other alternatives, wishes to request a variance to the Rules, and the Evaluator in his professional opinion feels the variance request is justified and the site limitations can be overcome, he shall document the soil and site conditions on the Application. The Evaluator shall list the specific variances necessary plus describe below the proposed system design and function. The Evaluator shall further describe how the specific site limitations are to be overcome, and provide any other support documentation as required prior to consideration by the Department. Attach a separate sheet if necessary.

I, Paul A. Beers, S.E., certify that a variance to the Rules is necessary since a system cannot be installed which will completely satisfy all the Rule requirements. In my judgment, the proposed system design on the attached Application is the best alternative available; enhances the potential of the site for subsurface wastewater disposal; and that the system should function properly.

Paul A. Beers — 7/10/15

SIGNATURE OF SITE EVALUATOR — DATE

PROPERTY OWNER

I, Roberta Gamage, Newman Gamage, am the ☐ owner ☐ agent for the owner of the subject property. I understand that the installation on the Application is not in total compliance with the Rules. Should the proposed system malfunction, I release all concerned provided they have performed their duties in a reasonable and proper manner, and I will promptly notify the Local Plumbing Inspector and make any corrections required by the Rules. By signing the variance request form, I acknowledge permission for representatives of the Department to enter onto the property to perform such duties as may be necessary to evaluate the variance request.

Roberta Gamage — 9-4-15

☐ SIGNATURE OF OWNER
☐ AGENT FOR THE OWNER — DATE

LOCAL PLUMBING INSPECTOR - Approval at local level

The local plumbing inspector shall review all variance requests prior to rendering a decision.
I, Gary R. Fuller, the undersigned, have visited the above property and find that the variance request submitted by the applicant does not conform with certain provisions of the wastewater disposal rules. The variance request submitted by the applicant is the best alternative for a subsurface wastewater disposal system on this property. The proposed system (☐ does ☐ does not) conflict with any provisions controlling subsurface wastewater disposal in the shoreland zone. Therefore, I (☑ do ☐ do not) approve the requested variance. I (☐ will ☐ will not) issue a permit for the system's installation as proposed by the application.

Gary R. Fuller — LPI Signature

9/4/15 — Date

LOCAL PLUMBING INSPECTOR - Referral to the Department

The local plumbing inspector shall review all variance requests prior to forwarding to the Division of Environmental Health.
I, _____, the undersigned, have visited the above property and find that the variance request submitted by the applicant does not conform with certain provisions of the wastewater disposal rules. The variance request submitted by the applicant is the best alternative for a subsurface wastewater disposal system on this property. The proposed system (☐ does ☐ does not) conflict with any provisions controlling subsurface wastewater disposal in the shoreland zone. Therefore, I (☐ do ☐ do not) recommend the issuance of a permit for the system's installation as proposed by the application.

_____ LPI Signature

_____ Date

FOR USE BY THE DEPARTMENT ONLY

The Department has reviewed the variance(s) and (☐ does ☐ does not) give its approval. Any additional requirements, recommendations, or reasons for the Variance denial, are given in the attached letter.

_____ SIGNATURE OF THE DEPARTMENT

_____ DATE

Notes: 1. Variances for soil conditions may be approved at the local level as long as the total point assessment is at least the minimum allowed. (See Section 7.B.4 of the Subsurface Wastewater Disposal Rules for Municipal Review.)

2. Variances for other than soil conditions or soil conditions beyond the limit of the LPI's authority are to be submitted to the Department for review. (See Section 7.B.3 for Department Review.) The LPI's signature is required on these variance requests prior to sending them to the Department.

SOIL, SITE AND ENGINEERING FACTORS FOR FIRST TIME SYSTEM VARIANCE ASSESSMENT WITH LIMITING SOIL DRAINAGE CONDITIONS (SEE TABLES 7C THROUGH 7M).

	CHARACTERISTIC	POINT ASSESSMENT
Soil Profile		
Depth to Groundwater/Restrictive Layer		
Terrain		
Size of Property		
Waterbody Setback		
Water Supply		
Type of Development		
Disposal Area Adjustment		
Vertical Separation Distance		
Additional Treatment		
	TOTAL POINT ASSESSMENT:	

Minimum Points (Check One): ☐ Outside Shoreland Zone-50 ☐ Inside Shoreland Zone-65 ☐ Subdivision-65

AF 9/4/15

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services
Division of Health Engineering, 10 SHS
(207) 287-5672 Fax: (207) 287-3165

PROPERTY LOCATION

>> CAUTION: LPI APPROVAL REQUIRED <<

City, Town, or Plantation	AUGUSTA
Street or Road	230 CHURCH HILL RD.
Subdivision, Lot #	M71 L13A

AUGUSTA PERMIT #7117 TOWN COPY
Date Permit Issued: 9/4/15
$ 250.00 fee
15.00
LPI # 850

OWNER/APPLICANT INFORMATION

Name (last, first, MI)	GAMAGE, NEWMAN ■ Owner ☐ Applicant
Mailing Address of Owner/Applicant	230 CHURCH HILL ROAD AUGUSTA, ME 04330
Daytime Tel. #	207-622-5009

OWNER OR APPLICANT STATEMENT
I state and acknowledge that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a Permit.

Newman Gamage — Signature of Owner or Applicant
9-4-15 — Date

I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application.

_____ (1st) date approved

_____ Local Plumbing Inspector Signature

_____ (2nd) date approved

PERMIT INFORMATION

TYPE OF APPLICATION
- ☐ 1. First Time System
- ■ 2. Replacement System
  - Type replaced: TRENCH
  - Year installed: 1972
- ☐ 3. Expanded System
  - ☐ a. <25% Expansion
  - ☐ b. >= 25% Expansion
- ☐ 4. Experimental System
- ☐ 5. Seasonal Conversion

THIS APPLICATION REQUIRES
- ☐ 1. No Rule Variance
- ☐ 2. First Time System Variance
  - ☐ a. Local Plumbing Inspector Approval
  - ☐ b. State & Local Plumbing Inspector
- ■ 3. Replacement System Variance
  - ■ a. Local Plumbing Inspector Approval
  - ☐ b. State & Local Plumbing Inspector
- ☐ 4. Minimum Lot Size Variance
- ☐ 5. Seasonal Conversion Permit

DISPOSAL SYSTEM COMPONENTS
- ■ 1. Complete Non-engineered System
- ☐ 2. Primitive System (graywater & alt. toilet)
- ☐ 3. Alternative Toilet, specify: _____
- ☐ 4. Non-engineered Treatment Tank (only)
- ☐ 5. Holding Tank, _____ gallons
- ☐ 6. Non-engineered Disposal Field (only)
- ☐ 7. Separated Laundry System
- ☐ 8. Complete Engineered System (2000 gpd or more)
- ☐ 9. Engineered Treatment Tank (only)
- ☐ 10. Engineered Disposal Field (only)
- ☐ 11. Pre-treatment, specify: _____
- ☐ 12. Miscellaneous Components

SIZE OF PROPERTY
5+/- ☐ SQ. FT. ■ ACRES

SHORELAND ZONING
☐ Yes ■ No

DISPOSAL SYSTEM TO SERVE
- ■ 1. Single Family Dwelling Unit, No. of Bedrooms: 3
- ☐ 2. Multiple Family Dwelling, No. of Units: _____
- ☐ 3. Other: _____ (specify)

Current Use ☐ Seasonal ■ Year Round ☐ Undeveloped

TYPE OF WATER SUPPLY
■ 1. Drilled Well ☐ 2. Dug Well ☐ 3. Private
☐ 4. Public ☐ 5. Other

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK
- ■ 1. Concrete
  - ☐ a. Regular
  - ■ b. Low Profile
- ☐ 2. Plastic
- ☐ 3. Other: _____

CAPACITY: 1,000 GAL

DISPOSAL FIELD TYPE & SIZE
- ■ 1. Stone Bed ☐ 2. Stone Trench
- ☐ 3. Proprietary Device
  - ☐ a. cluster array ☐ c. Linear
  - ☐ b. regular load ☐ d. H-20 load
- ☐ 4. Other: _____

SIZE: 1120 ■ sq. ft. ☐ lin. ft.

GARBAGE DISPOSAL UNIT
■ 1. No ☐ 2. Yes ☐ 3. Maybe
If Yes or Maybe, specify one below:
- ☐ a. multi-compartment tank
- ☐ b. ___ tanks in series
- ☐ c. increase in tank capacity
- ☐ d. Filter on Tank Outlet

DESIGN FLOW
270 gallons per day
BASED ON:
- ■ 1. Table 4A (dwelling unit(s))
- ☐ 2. Table 4C (other facilities)

SHOW CALCULATIONS
—— for other facilities ——

☐ 3. Section 4G (meter readings)
ATTACH WATER METER DATA

SOIL DATA
PROFILE: 8 CONDITION: A|||
at Observation Hole # TP-1
Depth 12 "
of Most Limiting Soil Factor
Groundwater

DISPOSAL FIELD SIZING
- ☐ 1. Medium—2.6 sq. ft. / gpd
- ☐ 2. Medium—Large 3.3 sq. f.t / gpd
- ■ 3. Large—4.1 sq. ft. / gpd
- ☐ 4. Extra Large—5.0 sq. ft. / gpd

EFFLUENT/EJECTOR PUMP
- ☐ 1. Not Required
- ☐ 2. May Be Required
- ■ 3. Required

Specify only for engineered systems:
DOSE: _____ gallons

LATITUDE AND LONGITUDE
at center of disposal area
Lat. N44 d 19 m 59.92 s
Lon. W69 d 43 m 52.31 s
if g.p.s. state margin of error: 20'

SITE EVALUATOR STATEMENT

I certify that on 7/9/15 (date) I completed a site evaluation on this property and state that the data reported are accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241).

Paul A. Beers — Site Evaluator Signature
56 — SE #
07/10/15 — Date

Paul A. Beers — Site Evaluator Name Printed
(207) 582-7400 — Telephone Number
decaycvr@msn.com — Email Address

Designed with SeptiCAD v3

Note: Changes to or deviations from the design should be confirmed with the Site Evaluator.

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services
Division of Health Engineering, Station 10
(207) 287-5672 Fax: (207) 287-3165

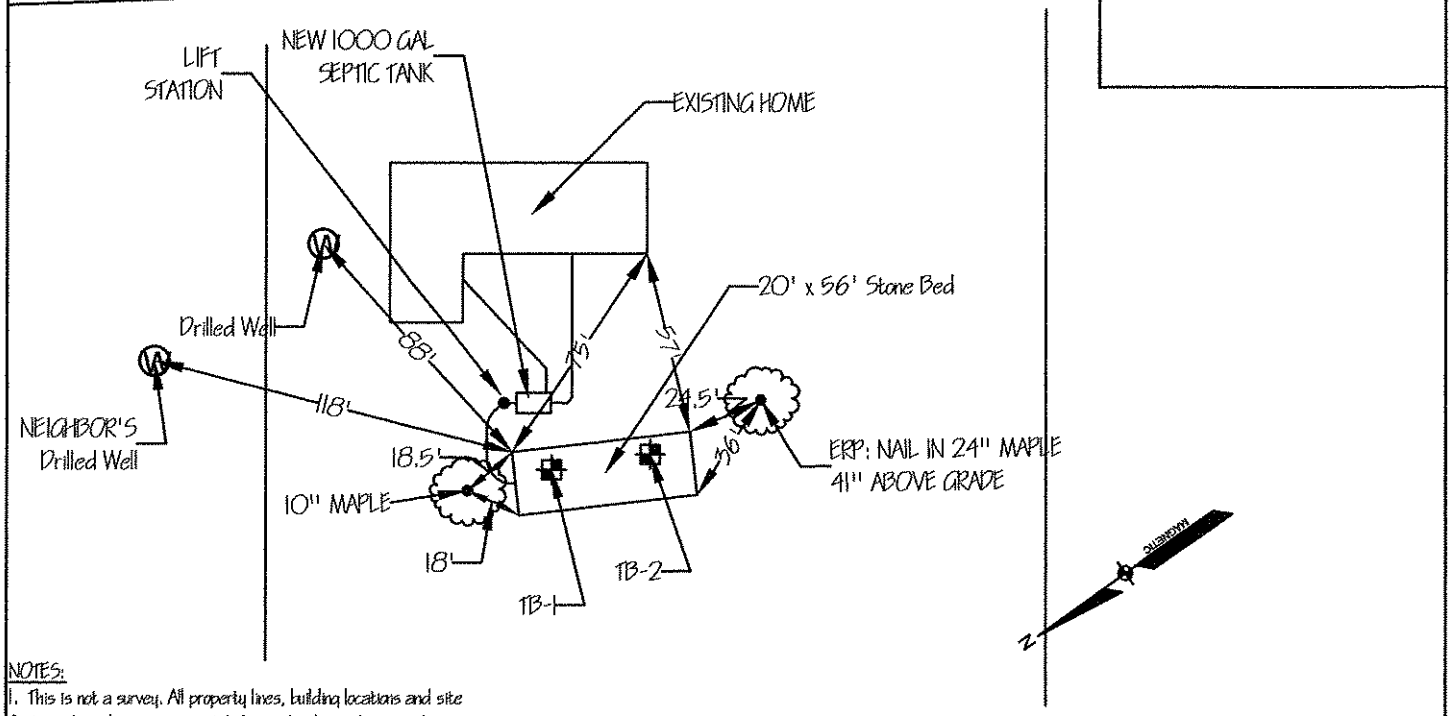
Town, City, Plantation	Street, Road, Subdivision	Owner or Applicant Name
AUGUSTA	230 CHURCH HILL RD.	NEWMAN GAMAGE

SITE PLAN Scale 1" = 60 ft.

SITE LOCATION PLAN

N

SEE ATTACHED



NOTES:
1. This is not a survey. All property lines, building locations and site features have been approximately located, unless otherwise shown.

SOIL PROFILE DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole # TB-1 ☐ Test Pit ■ Boring

" Depth of organic horizon above mineral soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0–6	Fine Sandy Loam	Friable	Brown	
6–12	Silt Loam	Friable	Olive Brown	
12–18	Silt Loam	Firm	Gray	Few & Faint
18–48	Bedrock at 18 inches			

Soil Profile	Classification Condition	Slope Percent	Limiting Factor Depth	
8	AIII	4	12"	■ Groundwater ☐ Restrictive Layer ☐ Bedrock

Observation Hole # TP-2 ☐ Test Pit ■ Boring

" Depth of organic horizon above mineral soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0–6	Fine Sandy Loam	Friable	Brown	
6–12	Silt Loam	Friable	Olive Brown	
12–18	Silt Loam	Firm	Gray	Common & Distinct
18–48	Bedrock at 19 inches			

Soil Profile	Classification Condition	Slope Percent	Limiting Factor Depth	
8	AIII	4	12"	■ Groundwater ☐ Restrictive Layer ☐ Bedrock

Site Evaluator Signature | 56 SE # | 07/10/15 Date

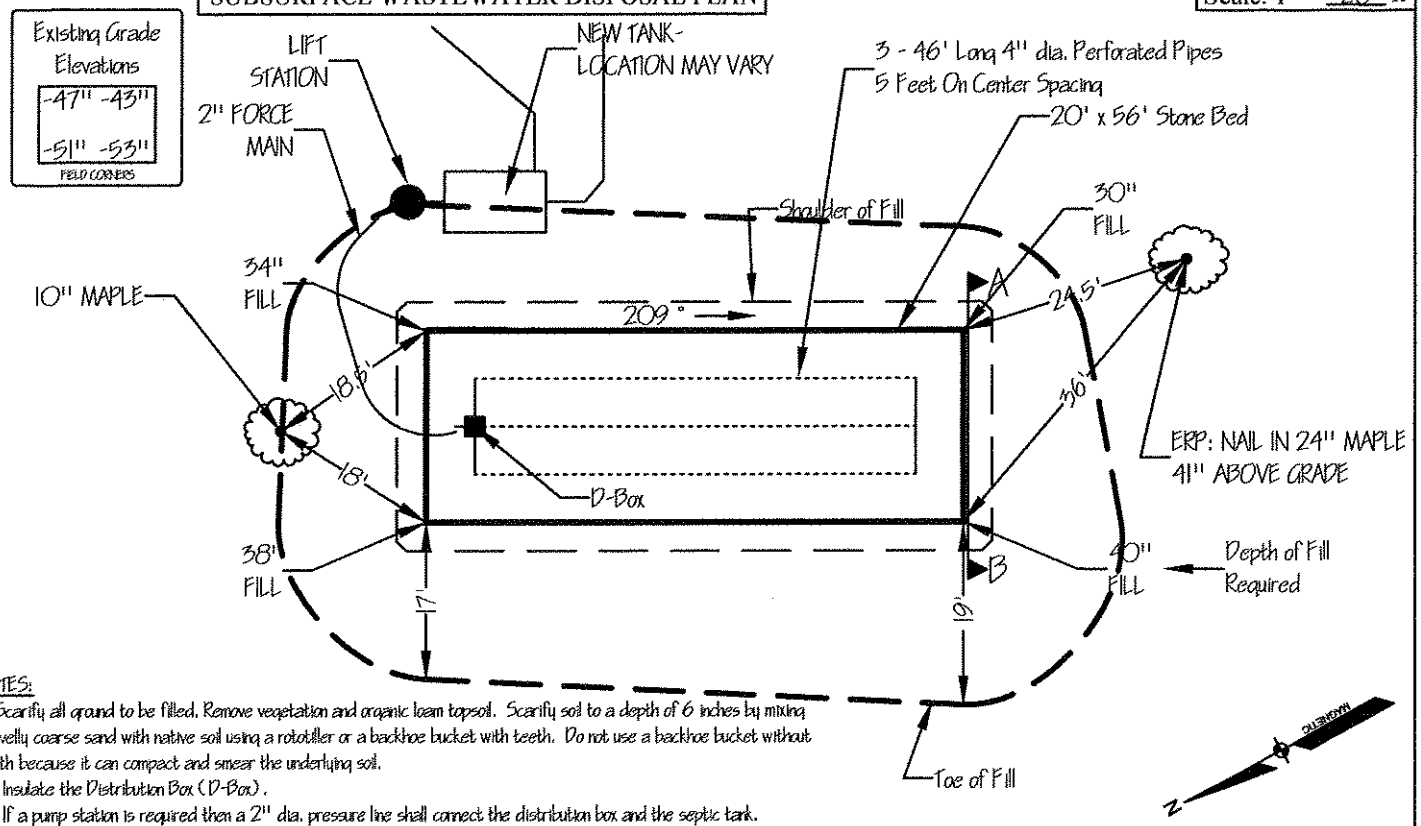
SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services
Division of Health Engineering, Station 10
(207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation	Street, Road, Subdivision	Owner or Applicant Name
AUGUSTA	230 CHURCH HILL RD.	NEWMAN GAMAGE

SUBSURFACE WASTEWATER DISPOSAL PLAN

Scale: 1" = 20 ft



NOTES:

1. Scarify all ground to be filled. Remove vegetation and organic loam topsoil. Scarify soil to a depth of 6 inches by mixing gravelly coarse sand with native soil using a rototiller or a backhoe bucket with teeth. Do not use a backhoe bucket without teeth because it can compact and smear the underlying soil.
2. Insulate the Distribution Box (D-Box).
3. If a pump station is required then a 2" dia. pressure line shall connect the distribution box and the septic tank.
4. This is not a survey. All property lines, building locations and site features have been approximately located, unless otherwise shown.

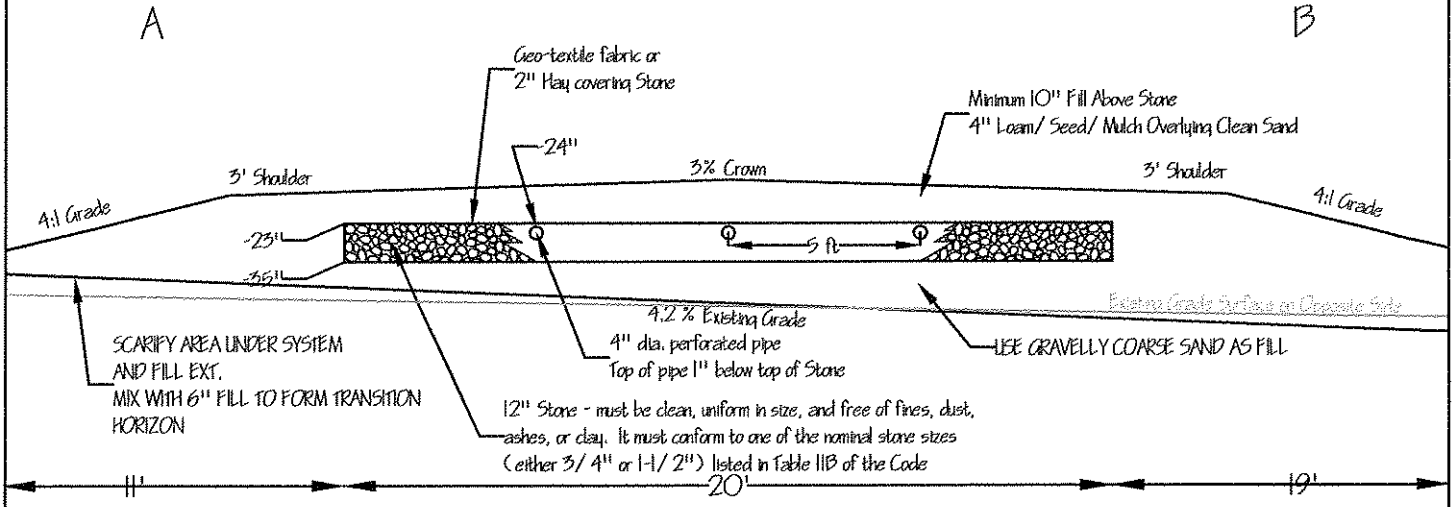
BACKFILL REQUIREMENTS		CONSTRUCTION ELEVATIONS		ELEVATION REFERENCE POINT
Depth of Backfill (upslope)	34" to 30"	Finished Grade Elevation (at Row 1)	-13"	Location & Description: NAIL IN 24" MAPLE
Depth of Backfill (downslope)	38" to 40"	Top of Proprietary Device (at Row 1)	-24"	41" ABOVE GRADE
		Bottom of Disposal Field (at Row 1)	-35"	Reference Elevation is 0.0" or:

NOTE: SCARIFY ALL GROUND SURFACE TO BE FILLED. BED THICKNESS FROM BASE OF STONE TO TOP OF LOAM IS MINIMUM 20" WITH FILTER FABRIC AND 22" WITH HAY.

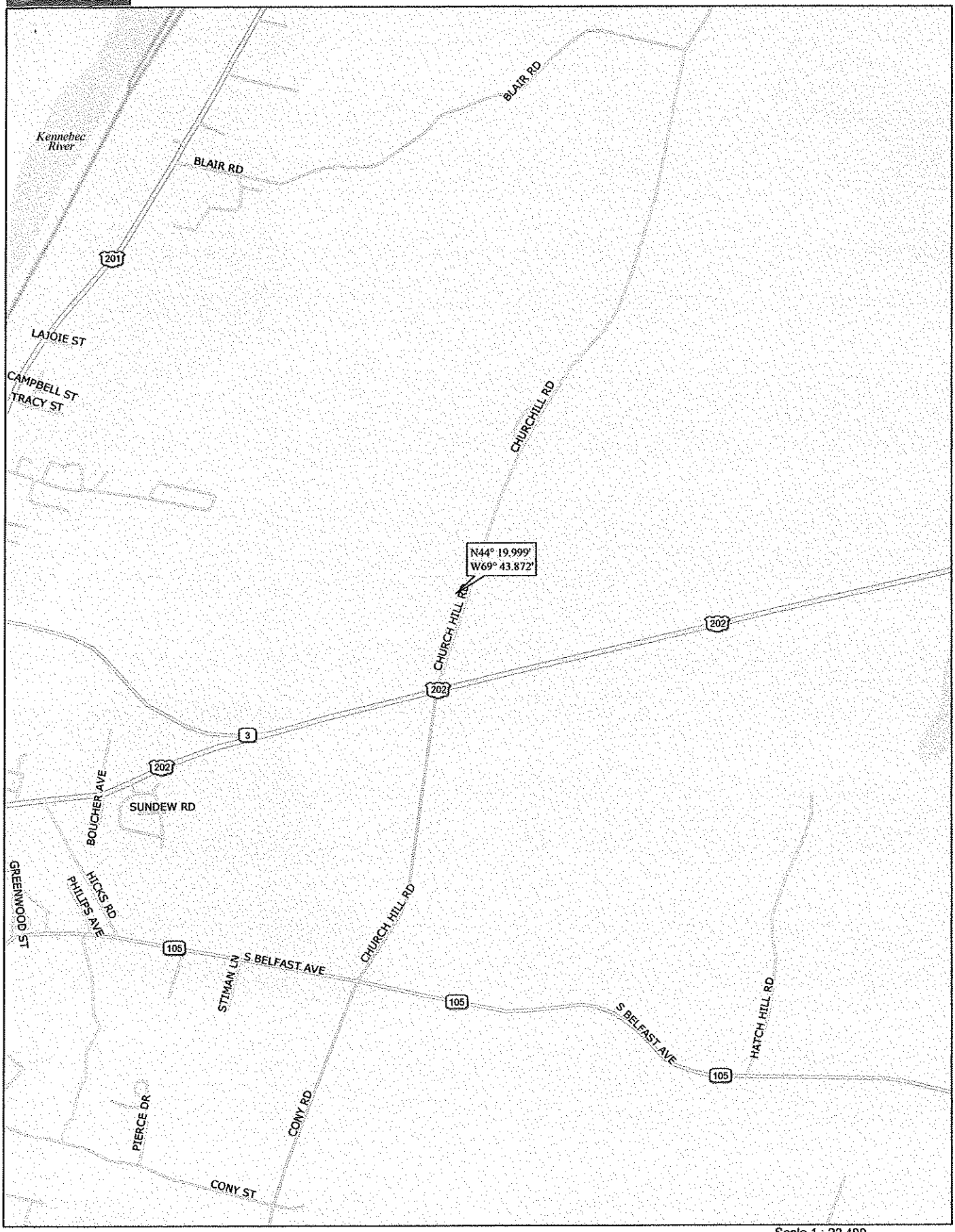
DISPOSAL FIELD CROSS SECTION

APPROXIMATE ABOVE GRADE FILL REQUIRED
66.4 cubic yards of LOAM
308.8 cubic yards of SAND
Compaction: + 20% Loam & + 15% Sand
Volume of stone not considered

Scales:
Verticle: 1" = 5
Horizontal: 1" = 5



Site Evaluator Signature	SE #	Date	
	56	07/10/15	Page 3 of 3
			HHE-200 Rev. 10/02



TN
MN (15.7°W)

Scale 1 : 22,400
1" = 1,866.7 ft
Data Zoom 13-2

Paul A. Beers LSE, CSS
26 Fairview Street
Gardiner, ME. 04345
207-582-7400

TOWN: **Augusta** LOCATION: **230 Church Hill Rd.** APPLICANT'S NAME: **Newman Gamage**

1) The Plumbing and Subsurface Wastewater Disposal Rules adopted by the State of Maine, Department of Human Services pursuant to 22 M.R.S.A. § 42 (the "Rules") are Incorporated herein by reference and made a part of this application and shall be consulted by the owner/applicant, the system Installer and/or building contractor for further construction details and material specifications. The system installer should contact Paul A. Beers 582-7400, if there are any questions concerning materials, procedures or designs. The system Installer and/or building contractor installing the system shall be solely responsible for compliance with the Rules and with all state and municipal laws and ordinances pertaining to the permitting, inspection and construction of subsurface wastewater disposal systems. **Paul A. Beers does not have a financial interest in any proprietary product that may be specified as part of the attached design.**

2) This application is intended to represent facts pertinent to the Rules only. It shall be the responsibility of the owner/applicant, system installer and/or building contractor to determine compliance with and to obtain permits under all applicable local, state and/or federal laws and regulations (including, without limitation, Natural Resources Protection Act, Vernal Pools, wetland regulations, zoning ordinances, subdivision regulations, Site Location of Development Act and minimum lot size laws) before installing this system or considering the property on which the system is to be installed a "Buildable" lot. It is recommended that a wetland scientist be consulted regarding wetland and vernal pool regulations.

Prior to the commencement of construction/installation, the local plumbing inspector shall inform the owner/applicant and Paul A. Beers of any local ordinances, which are more restrictive than the Rules in order that the design may be amended. All designs are subject to review by local, state and/or federal authorities. Paul A. Beers's liability shall be limited to revisions required by regulatory agencies pursuant to laws or regulations In effect at the time of preparation of this application.

3). All information shown on this application relating to property lines, well locations, subsurface structures and underground facilities (such as, utility lines, drains, septic systems, water lines, etc.) are based solely upon information provided by the owner/applicant and has been relied upon by Paul A. Beers in preparing this application. The owner/applicant shall review this application prior to the start of construction and confirm this information.

4).Installation of a garbage (grinder) disposal is not recommended. If one is installed, an additional 1000 gallon septic tank or a septic tank filter should be connected in series to the proposed septic tank.

5).The system user shall avoid introducing kitchen grease or fats into this system. Chemicals such as septic tank cleaners and/or chlorine (such as from water treatment) and controlled or hazardous substances shall not be disposed of in this system.

6) The septic tank should be pumped within two years of installation and subsequently as recommended by the pump service, but in no event should the septic tank be pumped less often than once every three years.

7) The actual water flow or number of bedrooms **shall not exceed the design criteria indicated on this application** without a re-evaluation of the system as proposed. If the system is supplied by public water or a private service with a water meter, the water consumption per period should be divided by the number of days to calculate the average daily water consumption (water usage (cu.ft.) x 7.48. (gallons per cu. ft.) .

8) The general minimum setback between a well and septic system serving a single family residence is 100-300 feet, unless the local municipality has a more stringent requirement. A well installed by an abutter within the minimum setback distances prior to the issuance of a permit for the proposed disposal system may void this design.

9) When a gravity system is proposed: **BEFORE CONSTRUCTION/INSTALLATION BEGINS,** the system installer or building contractor shall review the elevations of all points given in this application and the elevation of the existing and/or proposed building drain and septic tank inverts for compatibility to minimum slope requirements. In gravity systems, the invert of the septic tank(s) outlet(s) shall be at least 4 inches above the invert of the distribution box outlet at the disposal area (see pg 3 of HHE200). When an effluent pump is required, provisions shall be made to make certain that surface ground water does not enter the septic tank or pump station. An alarm device warning of a pump failure shall be installed. Insulate gravity pipes, pump lines and the distribution box as necessary to prevent freezing. Install risers to within 6" of grade on tank cleanout and to grade on tanks with effluent filter.

10) On all systems, remove the vegetation; organic duff and old fill material from under the disposal area and any fill extension. On sites where the proposed system is to be installed in natural soil, scarify the bottom and sides of the excavated disposal area with a rake. Do not use wheeled equipment on the scarified soil surface. For systems installed in fill, scarify the native soil by roto-tilling to a depth of at least 8 inches over the entire disposal and fill extension area to prevent glazing and to promote fill bonding. Place fill in loose layers no deeper than 8 inches and compact thoroughly before placing more fill (this ensures that voids and loose pockets are eliminated to minimize the chance of leakage). Do not use wheeled equipment on the scarified soil area until after 12 inches of fill is in place. Keep equipment off plastic chambers, leaching pipe or In-drains. Divert the surface water away from the disposal area by ditching or shallow swales.

11). Unless noted otherwise, fill shall be gravelly coarse sand, which contains no more than 5 % fines (silt and clay).

12). Do not install systems on loamy, silty, or clayey soils during wet periods since soil smearing/glazing will seal off the soil interface.

13). Seed all filled and disturbed surfaces with perennial grass seed, then mulch with hay or equivalent material to prevent erosion.